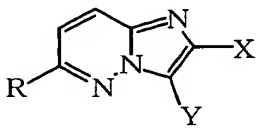
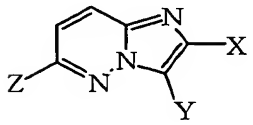
ABSTRACT

A process for easily and inexpensively producing an imidazo[1,2-b]pyridazin-3-ylsulfonamide derivative which has a substituent bonded to the 6-position carbon atom and is represented by the formula (II):



(II)

(wherein R represents lower alkyl, lower cycloalkyl optionally substituted by lower alkyl, lower alkenyl, or lower alkynyl), the process comprising reacting an imidazo[1,2-b]pyridazine compound represented by the formula (I):



(I)

(wherein X represents halogeno or lower alkyl optionally substituted by halogeno; Y represents hydrogen or $SO_2N{=}CH{-}NR^1R^2$; and Z represents halogeno or OSO_2R^3) with an organometallic compound in the presence of a transition metal catalyst. The derivative is useful as an intermediate for herbicides.